	Application No.	Applicant(s)
Notice of Allowability	10/652,264	CHEEDELLA ET AL.
	Examiner	Art Unit	
	Navneet K. Ahluwalia	2166	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to <u>09/27/2007</u>.

2. ☒ The allowed claim(s) is/are <u>*1,4,6,11-13,16,18-20,22-23,25,27-28,31-34 (Renumbered 1-19)*</u>.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date <u>20070929</u> .

7. ☒ Examiner's Amendment/Comment

8. ☐ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

HOSAIN ALAM
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

1.   This communication is in response to the amendment filed on 09/27/2007.

After a search and thorough examination of the present application and in light of

the prior art made of records, claims 1, 4, 6, 11 – 13, 16, 18 – 20, 22 – 23, 25, 27 – 28 ,

31 – 34 (Renumbered 1 – 19) are allowed.

EXAMINER'S AMENDMENT

2.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Brian Genco (Regd. No. 58096) on 09/27/2007.

The application has been amended as follows:

Please replace the claim listings dated 09/10/2007 to

1. (Currently Amended)   A data loading tool <u>stored on a computer readable medium</u>

~~operable on a computer system~~ for loading a target database, comprising:

an initialization component ~~operable to~~ <u>that</u> obtain<u>s</u> a tables list that identifies

tables of a source database, wherein an order in which the tables are

listed in the tables list identifies a relational association of the tables in

the source database;

the initialization component further ~~operable to~~ receives requested test data,

identify~~identify~~ identifies a first table in the tables list, searches the first table by

a primary key of the first table to locate, ~~identify~~ identifies at least one

secondary key of the first table, and ~~identify~~ identifies a first data that is

related to the requested test data by associating the at least one

secondary key of the first table with the location of the requested test

data in the primary key of the first table,

the initialization component further ~~operable to identify~~ identifies a second

table in the tables list with a primary key of the second table that is the at

least one secondary key of the first table, ~~identify~~ identifies at least one

secondary key of the second table, and ~~identify~~ identifies second data

that is related to the requested data by associating the at least one

secondary key of the second table with a location of the first data in the

primary key of the second table,

the initialization component further ~~operable to~~ generates a load file that

maintains a record of tables, keys, and data identified by the initialization

component in an order that maintains a relational integrity of the source

database;

a control generator ~~operable to~~ that generates at least one control file related

to the source database;

an extractor component ~~operable to~~ that extracts data from the source

database based on the load file; and

a loader component ~~operable to~~ that loads the data extracted by the extractor

component into the target database utilizing the at least one control file,

wherein the data loaded into the target database maintains the relational

integrity of the source database.

2-3. (Canceled)

4. (Previously Presented)   The data loading tool of Claim 1, wherein the control
generator generates a plurality of control files, at least one of the control files
having information related to a structure of the source database.

5. (Canceled)

6. (Previously Presented)   The data loading tool of Claim 1, wherein the at least one of

the control file generated by the control generator is further defined as a data file

with data structures that are void of data and wherein the extractor component

extracts data from the database and writes the data to the data structures of the

data file.

7-10. (Canceled)

11. (Previously Presented) A method of loading a target database, comprising:

providing an indication of data that is desired to be loaded in the target

database;

providing a table list identifying a plurality of tables of a source database in an

order specifying a relational aspect between the plurality of tables;

identifying a first table in the tables list;

searching the first table by a primary key of the first table to locate a first

portion of the data that is desired to be loaded in the target database;

identifying a secondary key of the first table;

associating the secondary key of the first table with the location of the first

portion of data in the primary key of the first table to identify a second

portion of data that is to be loaded in the target database;

identifying a second table in the tables list that is relationally associated with

the first table;

identifying a secondary key of the second table;

associating the secondary key of the second table with a location of the

second portion of data in a primary key of the second table to identify a

third portion of data that is to be loaded in the target database;

generating a load file that maintains a record of tables, keys, and data that

have been identified in an order that maintains a relational integrity of the

source database;

generating a control file based on the source database and a data file;

extracting data from the source database to the data file in the order specified

in the load file; and

loading the data from the data file to the target database using the control file

and the table list, wherein the data loaded to the target database

maintains the relational integrity of the source database.

12. (Previously Presented) The method of Claim 11, wherein providing the table list

further comprises:

provide a graphical user interface identifying the plurality of tables of the

database;

selecting at least one of the tables provided in the graphical user interface;

and

providing the selected at least one table in the table list, wherein the selected

at least one table in the table list is the first table.

13. (Currently Amended)   The method of Claim 11, wherein providing the indication of

data that is desired to be loaded further comprises:

providing an input portion of a graphical user interface ~~operable to~~ that

receives input; and

inputting the indication of data that is desirably loaded in the target database

into the input portion of the graphical user interface.

14-15. (Canceled)

16. (Previously Presented) The method of Claim 11, wherein the control file is based on

at least a portion of a structure of the source database.

17. (Canceled)

18. (Previously Presented) The method of Claim 11, wherein the second key of the first

   table is a primary key of the second table.

19. (Currently Amended)   A method of testing an application using a test database,

comprising:

   providing a table list identifying at least some of the tables of a source

      database;

   generating a load list including a table name related to at least one of the

      tables in the table list, a key name related to a primary key of the at least

      one table and a portion of data associated with the primary key, using

      the primary key and the portion of data to identify a secondary key of the

      at least one table and a second portion of data in the at least one table,

      identifying another of the tables in the table list with the secondary key

      as a primary key of the other table and the second portion of data

      associated with the primary key of the other table, using the primary key

      of the other table and the second portion of data to identify a secondary

      key of the other table and a third portion of data in the other table,

      wherein the load list further includes a table name of the other table in

      the table list, a key name related to the primary key of the other table,

      and the second portion of data associated with the primary key of the

      other table;

generating at least one control file based on a structure of the source

database;

extracting at least some of the data from the source database to a data file

using the load list; and

loading the at least some of the data from the data file to the test database

based on the load list and using the at least one control file;

testing the application using the test database.

20. (Previously Presented) The method of Claim 19, wherein the portion of data and the

second portion of data is further defined as associated with a data desirable for

testing via the test database

21. (Canceled)

22. (Previously Presented) The method of Claim 19, further comprising associating the

secondary key of the at least one table with the primary key of the other table

based on a relational association of the at least one table and the other table of the

source database.

23. (Previously Presented) The method tool of Claim 19, further comprising providing a

plurality of key names and searching the at least one table for one of the plurality

of key names to locate the secondary key.

24. (Canceled)

25. (Previously Presented) The data loading tool of claim 1, wherein the test data

related information is one of the primary key of the first table or the data related to the

primary key of the first table.

26. (Canceled)

27. (Currently Amended)   The data loading tool of claim 1, wherein the initialization

component [[is]] further ~~operable to identify~~ identifies a plurality of secondary keys of the

first table, and for each of the plurality of secondary keys, ~~identify~~ identifies data that is

related to the requested test data by associating a corresponding one of the plurality of

secondary keys with the location of the requested data in the primary key of the first

table.

28. (Currently Amended)   The data loading tool of claim 1, wherein the initialization

component [[is]] further ~~operable to identify~~ identifies a third table in the tables list

relationally associated with the second table, ~~identify~~ identifies a secondary key of the

third table, and ~~identify~~ identifies third data that is related to the requested test data by

associating the secondary key of the third table with a location of the second data in a

primary key of the third table.

29-30. (Canceled)

31. (Previously Presented) The method of claim 16, wherein the data file initially includes data structures for the data that is desirably loaded in the target database in accordance with the structure of the source database, and wherein the data extractor populates the data structures of the data file.

32. (Previously Presented) The method of claim 11, wherein the indication of data that is desired to be loaded in the target database is the first portion of the data that is desired to be loaded in the target database.

33. (Previously Presented) The method of claim 11, wherein the indication of data that is desired to be loaded in the target database is the primary key of the first table.

34. (Previously Presented) The method of claim 19, wherein generating the load list further includes identifying a third table in the table list with the secondary key of the second table as a primary key of the third table and the third portion of data associated with the primary key of the third table, using the primary key of the third table and the third portion of data to identify a secondary key of the third table and a fourth portion of data in the third table, wherein the load list further includes a table name of the third table in the table list, a key name related to the primary key of the third table, and the third portion of data associated with the primary key of the third table.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Navneet K. Ahluwalia whose telephone number is 571-272-5636.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alam T. Hosain can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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